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[§§ 12183 to 12219.]

[Issued with Army Orders, dated 1st June, 1904.]

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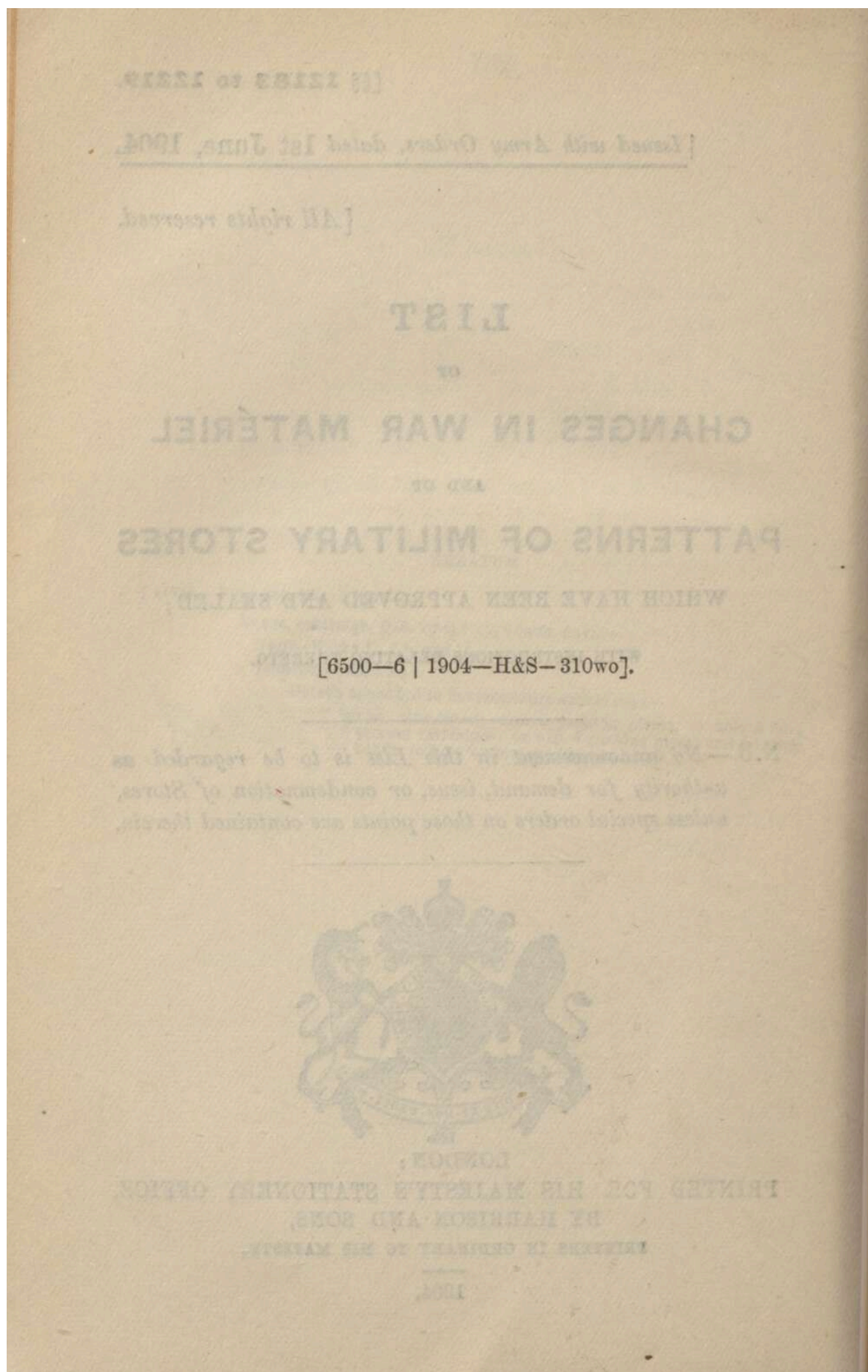
LIST
OF
CHANGES IN WAR MATÉRIEL
AND OF
PATTERNS OF MILITARY STORES
WHICH HAVE BEEN APPROVED AND SEALED;
WITH INSTRUCTIONS RELATING THERETO.

N.B.—No announcement in this List is to be regarded as authority for demand, issue, or condemnation of Stores, unless special orders on those points are contained therein.



LONDON:
PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
BY HARRISON AND SONS,
PRINTERS IN ORDINARY TO HIS MAJESTY.

1901.



CONTENTS.

| Article. | Para. | Page. |
|---|---------|-------|
| Apparatus, proving fuzes :— | | |
| Adapter, gad— <i>Obsolete.</i> | } 12208 | 764 |
| Attachment, tripod, portable plane table. (I.)— <i>Pattern sealed to govern future manufacture.</i> | } 12218 | 769 |
| Boxes :— | | |
| Spare parts and implements, Q.F., Hotchkiss— | | |
| 1. <i>To be fitted with mainspring gauge in future manufacture.</i> | | |
| 2. <i>Existing boxes of all Marks to be fitted with mainspring gauges generally.</i> | } 12203 | 754 |
| Telescopic sight. (I.)— <i>Fittings to carry telescopic sight box on carriage.</i> <i>Nomenclature.</i> | } 12197 | 743 |

| Article. | Para. | Page. |
|--|-------|-------|
| Carriages :— | | |
| Field— | | |
| B.L.— | | |
| 15-pr.— | | |
| <i>Modifications to rear spring case.</i> | 12198 | 744 |
| 15-pr., Marks I.* to V.— | | |
| <i>Clearance on metal cap to clear handspike.</i> | 12195 | 741 |
| 15-pr., Mark IV.— | | |
| <i>Fittings to carry telescopic sight box on carriage.</i> | 12197 | 743 |
| <i>Strengthened pattern rocking lever.</i> | 12196 | 742 |
| <i>Nomenclature</i> | 12197 | 743 |
| 12-pr. 6-cwt.— | | |
| <i>Modifications to rear spring case.</i> | 12198 | 744 |
| 12-pr. 6-cwt., Marks I*. to II.— | | |
| <i>Clearance on metal cap to clear handspike.</i> | 12195 | 741 |
| 12-pr. 6-cwt., Mark II.— | | |
| <i>Fittings to carry telescopic sight box on carriage.</i> | 12197 | 743 |
| <i>Strengthened pattern rocking lever.</i> | 12196 | 742 |
| <i>Nomenclature</i> | 12197 | 743 |
| Garrison— | | |
| B.L.— | | |
| 6-inch, C.P., Mark II.— | | |
| Q.F.— | | |
| 6-inch, Mark II.— | 12200 | 747 |
| <i>Cutting of shields to clear rocking-bar sights.</i> | | |

| Article. | Para. | Page. |
|---|---------|-------|
| Cartridges:— | | |
| B.L.— | | |
| 9·2-inch— | | |
| 60 lb., cordite, M.D., size 37. (I.) | } 12212 | 766 |
| 30 lb., cordite, M.D., size 37. (I.) | | |
| Cover, tin, mineral jelly, 3-oz. (I.)— <i>Use extended to Naval Service.</i> | } 12186 | 735 |
| Cylinders, cartridge:— | | |
| Discs, 8·5 inches diameter— | | |
| 1-inch thick. (I.)— <i>New pattern.</i> | } 12213 | 767 |
| $\frac{3}{8}$ -inch thick. (I.)— <i>Nomenclature.</i> | | |
| Errata | — | 777 |
| Flag, distinguishing:— | | |
| Veterinary hospital. (II.) | 12187 | 735 |
| Flask, pistol, powder. (I.)— <i>Extended use.</i> | } 12209 | 765 |
| Fuzes:— | | |
| Rocket, 3 lb., life-saving. (I.)— <i>Nomenclature.</i> | } 12210 | 765 |
| Time, Armstrong, E, No. 22. <i>Obsolete.</i> | } 12208 | 764 |
| Gauges:— | | |
| Mainspring, Q.F., Hotchkiss— | | |
| 6-pr. guns. (I.) | } 12203 | 754 |
| 3-pr. guns. (I.) | | |
| Wire. (I.) | 12191 | 738 |
| Heliograph, 5-inch. (III.)* | 12214 | 767 |
| Implements, fuze, shell, and cartridge:— | | |
| Key, fuze, Armstrong, E.— <i>Obsolete.</i> | } 12208 | 764 |

| Article. | Para. | Page. |
|---|-------|-------|
| Key, double current. (II.) :— | | |
| Case | 12216 | 768 |
| Limbers :— | | |
| Field, B.L.— | | |
| 15 pr. (IV.)— | | |
| <i>Fittings to carry telescopic sight box on carriage.</i> | 12197 | 743 |
| <i>Nomenclature.</i> | | |
| Travelling, B.L., 5-inch, converted, special. (I.)— | | |
| <i>Fittings for engine draught.</i> | 12201 | 747 |
| Lithographs, list of | — | 776 |
| Machine, rocket, life-saving, buoyant— | | |
| <i>Nomenclature.</i> | 12210 | 765 |
| Ordnance, B.L. :— | | |
| Lock, E. and P., "E"— | | |
| <i>Sharp edges on front face of locks to be rounded.</i> | 12205 | 760 |
| Ordnance, B.L., and B.L.C. :— | | |
| Lock, E. and P., "F"— | | |
| <i>Sharp edges on front face of locks to be rounded.</i> | 12205 | 760 |
| Ordnance, B.L.— | | |
| 6-inch, wire— | | |
| Marks VII. and VII.v— | | |
| Lever, breech mechanism— | | |
| Mark VIII.— | | |
| Lever, breech mechanism— | | |
| <i>Modification to prevent levers from fouling the gun in worn mechanism.</i> | 12206 | 760 |
| 12-pr. 6-cwt., Mark IV.A | 12207 | 762 |

V

| Article. | Para. | Page. |
|--|-------|-------|
| Ordnance, Q.F.:— | | |
| 12-pr. 18-cwt., Mark I. | 12219 | 771 |
| Hotchkiss— | | |
| 6-pr.— | | |
| Catch, retaining crank handle, Mark I.— | | |
| Rocking shaft, Mark IV.— | | |
| 3-pr.— | | |
| Catch retaining crank handle, Mark I.— | 12204 | 758 |
| Rocking shaft, Mark IV.— | | |
| 1. § 11005 cancelled. | | |
| 2. <i>Nomenclature of crank handles for Q.F. Hotchkiss 6-pr. and 3-pr. guns altered.</i> | | |
| 1-pr., Mark I.— | | |
| <i>Changes in nomenclature of certain parts.</i> | 12202 | 748 |
| Pipe cutters:— | | |
| 3-wheel. (I.)— | | |
| 3¼ inches to 4 inches— | | |
| 2¼ inches to 3 inches— | | |
| <i>New patterns.</i> | | |
| Single wheel— | | |
| ¼ inch to 1 inch— | 12192 | 738 |
| 1¼ inches to 2 inches— | | |
| 2 inches to 4 inches— | | |
| 3-wheel— | | |
| 2 inches to 4 inches— | | |
| <i>Obsolete.</i> | | |
| Posts, picket:— | | |
| 13 ft.— | | |
| 10 ft.— | | |
| 8 ft. (III.)— | | |
| <i>No more to be provided.</i> | | |
| 8 ft. (IV.)— | | |
| <i>New pattern.</i> | 12188 | 735 |
| 6 ft.— | | |
| <i>No more to be provided.</i> | | |

| Article. | Para. | Page. |
|--|---------|-------|
| Range table :— For 4.7-inch Q.F. gun, Marks I. to IV.*— Charge—2 lb. 5 $\frac{1}{4}$ oz. cordite, size 7 $\frac{1}{2}$ | } 12183 | 733 |
| Rifle, magazine, Lee-Metford. (II.)— <i>Fitted with barrels having Enfield rifling with body attached.</i> <i>Nomenclature when so fitted.</i> | | |
| Rocket, life-saving, buoyant— Rocket stick, 6 feet— <i>Obsolete.</i> | } 12210 | 765 |
| Saddlery, Officers :— Skin, lamb. (III.) Skin, leopard. (I.) | | |
| Scabbard, sword-bayonet, pattern 1903, Naval. (II.) | } 12185 | 733 |
| Screws :— Brass { flat head— round head— Iron { flat head— round head— <i>List of "Screws, brass and iron, either flat head or round head" for future supplies.</i> | | |
| Sights, Q.F., 15-pr. :— Hind, Mark I.— <i>Modification to traversing screw for deflection leaf.</i> | } 12199 | 743 |
| Spectacles, tinted. (I.) | | |
| Spikes, marline, steel :— 12-inch— 11-inch— 10-inch— 9-inch— <i>Nomenclature.</i> | } 12193 | 739 |
| Switchboard, telephone exchange, field, 12-line. (II.) | | |
| | } 12217 | 769 |

| Article. | Para. | Page. |
|---|---------|-----------|
| Table, plane, portable. (I.) :— | | |
| Board. (I.) | } 12218 | 769 |
| Cover. (I.) | | |
| Tripod. (I.) | | |
| Tent, telegraph. (I.) :— | | |
| Poles— | } | |
| Ridge. (I.) | | |
| Upright. (I.) | | |
| Tent :— | | |
| Lines, bracing— | } | 12189 738 |
| Telegraph— | | |
| 7 feet 6 inches | | |
| 6 ft. (I.) | | |
| 5 ft. (I.) | | |
| Lines, awning— | } | |
| Telegraph. (I.) | | |
| Lines, weather— | } | |
| Telegraph. (I.) | | |
| Vases, telegraph. (I.) | } | |
| Tin, mineral jelly, 3-oz. (I.)— | } | 12186 735 |
| <i>Distinguishing letter altered from "L" to "C."</i> | | |
| Tubes :— | | |
| Friction, T.— | } | 12211 765 |
| Vent sealing— | | |
| Electric— | | |
| M.— | | |
| P.— | | |
| T. (double wired)— | | |
| V.— | | |
| Wireless, P.— | | |
| Percussion— | } | |
| <i>Ends burred to secure cork plugs.</i> | | |
| Wad, fuze hole, R.B.L. sockets— | } | 12208 764 |
| <i>Obsolete.</i> | | |

733

1st June, 1904.

[§§ 12183 to 12219.]

12183.—Range tables.

A range table, as under, has been prepared and issued to 25th June 1903.
officers concerned —

For 4·7-inch Q.F. gun, Marks I. to IV.*—

Charge—2 lb. 5½ oz. cordite, size 7½.

Projectile—practice shell ; weight, 45 lb.

40185

9760

(WEEDON SECTION.)

12184.—Rifle, magazine, Lee-
Metford. (Mark II.) C

Fitted with barrels having Enfield rifling
with body attached.

Nomenclature when so fitted.

With reference to § 11498 :—" Rifles, magazine, Lee-Metford, 16th March 1904.
Mark II." (with Mark II. breech bolt), will still retain their
original nomenclature, viz., "Mark II.," notwithstanding the
fact that they may have been fitted with Enfield barrels with
body attached.

77

15

3823

In order to make this clear, such bodies will be stamped "II.,"
and the letters "L.E., I.," crossed out, for which purpose the
necessary tools will be supplied on demand by the Chief Ordnance
Officer, Weedon.

Components for these rifles will be demanded as for "Rifles,
M.L.M., Mark II.," and officers commanding units having any of
these rifles on charge should provide for a proportion of Mark II.
spare components (such as strikers and cocking pieces) for the
same.

Rifles which have been fitted with Enfield barrels with or
without bodies, and which have an M.L.E. breech bolt, are M.L.E.
rifles, and should be marked on the body "L.E., I."

It must be distinctly understood that the pattern of the breech
bolt determines the nomenclature of the above-mentioned rifles,
and care should be taken to ensure that the marking on the
body, the pattern of the breech bolt, and the spare components
to be demanded correspond in each case.

It may be found possible to largely secure the required
uniformity in pattern by interchanging, regimentally, the breech
bolts where the difference at present exists, and that course
should be followed wherever possible before re-marking the bodies
of the rifles.

12185.—Scabbard, sword-
bayonet, pattern 1903,
naval. (Mark II.) .. N

Brown leather; also
sword-bayonet, pattern
1888.

A pattern of the above-mentioned scabbard, a drawing 11th March 1904.
of which is attached, has been sealed to govern future manufacture.
(310)

77

21

1127

A

734

This scabbard is generally similar to the pattern described in § 11811, but rivets are used instead of stitches for the loop.

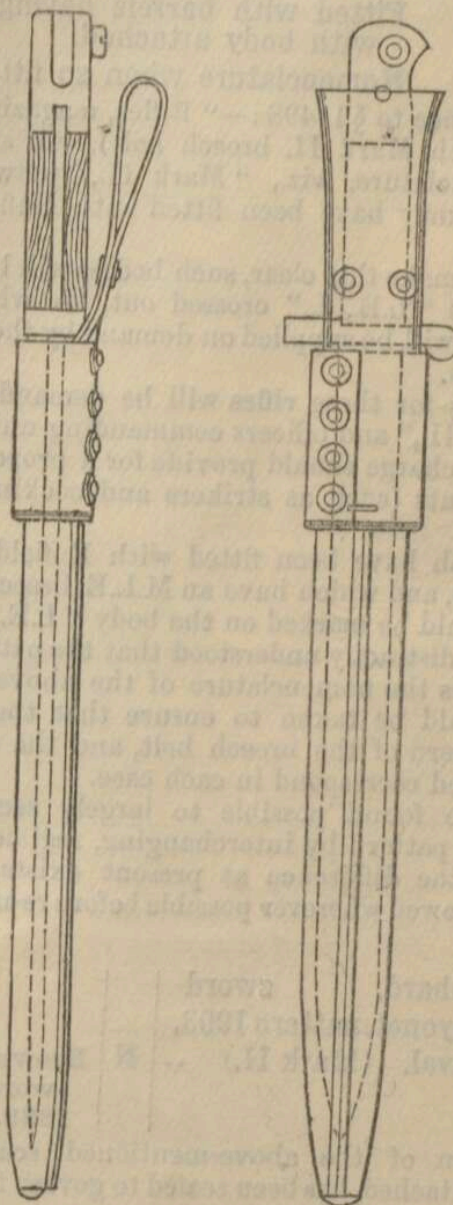
The scabbard is interchangeable on sword-bayonets, patterns 1888 and 1903.

| | | |
|-----------------------------|------|--|
| Length of scabbard over all | .... | 16 $\frac{5}{8}$ to 16 $\frac{3}{4}$ inches. |
| Weight | .... | 7 $\frac{1}{2}$ oz. |

Scabbard, sword-bayonet, pattern 1903.

Naval. (Mark II.)

Scale $\frac{1}{4}$.



735

| | | |
|---|--|--|
| 12186.—Tin, mineral jelly, 3-oz. (Mark I.) C | Tin; with cork and spoon; Rifle, short, M.L.E. | 29th Oct. 1903. 7669 87s6 |
| Cover, tin, mineral jelly, 3-oz. (Mark I.) C | Canvas, with stud. | 4th Dec. 1903. 57 Gen. No. 4880 |
| With reference to § 11950 :—It has been decided to extend the use of the above-mentioned articles to the Naval Service. | | |
| The distinguishing letter has, therefore, been altered from "L" to "C". | | 22nd April 1904. 4990 |

(WOOLWICH SECTION, No. 2.)

| | | |
|---|--|--|
| 12187.—Flag, distinguishing— Veterinary hospital. (Mark II.) | Bunting, 3 feet by 2 feet; red, with white triangle in centre. | 28th March 1904. 57 Gen. No. 4220 |
| A pattern of the above-mentioned flag has been sealed to govern future supplies. | | |
| It differs from Mark I. (§ 11853), in having a white equilateral triangle, apex downwards, in the centre, instead of a white horse. | | |

| | | |
|---|-----------------|------------------------|
| 12188.—Posts, picket, 8 feet, Mark IV. | Wood; garrison. | |
| 1. New pattern. | | |
| Posts, picket— 13 feet. 10 feet. 8 feet, Mark III. 6 feet. | | |
| 2. No more to be provided. | | |
| 1. A pattern of the above-mentioned 8-ft. Mark IV. picket post has been sealed to govern future manufacture. | | 20th July 1903. 57 |
| It is similar in construction to those described in § 11499. | | 24 |
| The post will be treated with "jodelite" instead of being painted. | | 4612 |
| | | 28th March 1904. |
| 2. No more of the above-mentioned 13-ft., 10-ft., 8-ft. Mark III., and 6-ft. picket posts will be made, and so soon as the existing stock is used up they will become obsolete. | | 57 Gen. No. 5343 |

(310)

A 2

12189.—Tent, telegraph. (Mark I.)

With pin bag, 2 mallets,
4 large and 48 small
wood pins, 1 ridge and
2 upright poles, valise,
2 vases, 2 weather
lines, and 1 tying-up
cord.

Poles—

Ridge. (Mark I.)

.. 7 feet 6 inches; in two
pieces.

Upright. (Mark I.)

.. 8 feet; in two pieces.

Tent—

Lines, bracing—

Telegraph—

7 feet 6 inches.

(Mark I.)

With runner and button,
small tent line; 4 for
corners of inner roof.

6 feet. (Mark I.)

With runner and button,
small tent line; 6 for
inner roof and 4 for
corners of outer fly.

5 feet. (Mark I.)

With runner and button,
small tent line; 6 for
inner roof.

Lines, awning—

Telegraph. (Mark I.)..

17 feet 6 inches, fitted
with large runner,
large tent line.

Lines, weather—

Telegraph. (Mark I.)..

37 feet, with large
runners, large tent
line.

Vases, telegraph. (Mark

I.)

6 inches, red, circular
top.

15th March 1904.

A pattern of the above-mentioned telegraph tent has been
sealed to govern manufacture.

58

19

The tent is for use as an office for field telegraph equipment,
and is constructed to open at both ends, so that several can be
placed end to end if required.

Consequent on the introduction of the "Tent, telegraph," the
details appended to nomenclature of the undermentioned articles
have been amended as follows :—

737

| | | | |
|-------------------------------|------|-----------------|--|
| Tent, circular, single linen— | | | |
| Bag, pin. (Mark I.) | .... | .... | Canvas, 1 foot 10 inches by 1 foot 5 inches, choke fastening; also <i>signallers and telegraph.</i> |
| Tent, circular, double— | | | |
| Valise. (Mark II.) | .... | .... | Canvas, 3 feet 8 inches by 2 feet 6 inches, with two tying-up lines; also tent, circular, single linen, and telegraph. |
| Tent— | | | |
| Cords, tying-up— | | | |
| Circular, double. (Mark I.) | | | 13 feet 6 inches, line, box, large; also telegraph. |
| Lines, looping— | | | |
| Operating, (Mark I.) | .... | 13 inches. | With 2 buttons, small tent line; also dining ridge pole, telegraph, and store tents. |

(WOOLWICH SECTION, No. 5.)

12190.—Saddlery, officers—

Skin, lamb. (Mark III.) Without facings; Dragoon Guards, Dragoons, Lancers, 14th Hussars, R.A., R.E., Rifles, and A.S.C.

Skin, leopard. (Mark I.) Without facings; for Hussars (except 14th Hussars).

Patterns of the above-mentioned articles have been sealed to govern future manufacture. 5th Dec. 1903.

54

Gen. No.

9071

Skin, lamb.

This differs from Mark II. (§ 3958) in being made up without openings and flaps for wallets, and in the arrangements of the loops and straps.

27th Feb. 1904.

54

Officers

235

Skin, leopard.

This is the same shape as the lamb skin, and with a brown leather seat.

(310)

A 3

Officers will make their own arrangements for obtaining the facings for the lamb and leopard skins mentioned above, the colour of facings to be as notified in the Dress Regulations.

The facings will be sewn on by the regimental artificer, who will also carry out any necessary repairs to the skins.

(WOOLWICH SECTION, No. 7.)

12191.—Gauge, wire. (Mark I.) .. and sheet metals; for workshop purposes.

7th April 1903.

7116

934

A pattern of the above-mentioned gauge has been sealed to govern supplies.

It differs from the "Gauge, wire" (§ 4861), (now designated "Gauge, standard, wire," *vide* page 282 of 1902 Vocabulary of Stores), in the greater deviation from "standard" dimensions of wire gauges allowed than is allowed in "standard" gauges, it being for use in workshops only.

Gauges to the new pattern will be marked "B.T." instead of the usual Board of Trade marks for standards approved by them.

In future, demands for wire gauges must specify whether "standard," or "workshop," gauges are required.

12192.—Pipe cutters:—

3-wheel. (Mark I.)—

3½ inches to 4 inches.

2½ inches to 3 inches.

Steel, cutting pipes and tubes.

1. New patterns.

Pipe cutters:—

Single wheel—

½ inch to 1 inch.

1½ inches to 2 inches.

2 inches to 4 inches.

3-wheel—

2 inches to 4 inches.

Steel, cutting pipes and tubes.

2. Obsolete.

24th Feb. 1904.

16th March 1904.

57

Inspectors

2138

1. Patterns of the above-mentioned pipe cutters have been sealed to govern future supplies.

They are similar to the 3-wheel pipe cutter illustrated in § 11120, *List of Changes*.

2. The single-wheel pipe cutters, and 3-wheel, 2 inches to 4 inches, shown on page 298, *Priced Vocabulary of Stores, 1902*, being no longer required are declared obsolete for future manufacture. Existing stock will be used up.

12193.—Spikes, marline, steel—

| | | | | |
|---------|----|----|----|--------------|
| 12-inch | .. | .. | .. | 1 lb. 10 oz. |
| 11-inch | .. | .. | .. | 2 lb. 12 oz. |
| 10-inch | .. | .. | .. | 1 lb. 12 oz. |
| 9-inch | .. | .. | .. | 1 lb. 4 oz. |

Nomenclature.

"Spikes, marline," are now invariably supplied of best tough cast steel, in place of iron, and the nomenclature will be amended to read as shown above. The weight of the 9-inch spike has not heretofore formed part of the nomenclature in the detail column, but has now been added.

19th May 1904.

57

Gen. No.

5504

(WOOLWICH SECTION, No. 10.)

12194.—Screws—

| | | |
|---------|---|-------------|
| Brass.. | { | flat head. |
| | { | round head. |
| Iron .. | { | flat head. |
| | { | round head. |

List of "Screws, brass and iron, either flat head or round head," for future supplies.

In future, brass or iron screws of either flat head or round head will be supplied in the sizes detailed below. Other sizes of screws of this description will only be supplied in very special instances—

6th Jan. 1904.

6th April 1904.

57

Gen. No.

4021

(310)

A 4

740

Screws, brass and iron—

Flat head, and round head—

4-inch—

Gauge No. 18.

Gauge No. 24.

3½-inch—

Gauge No. 16.

Gauge No. 22.

3-inch—

Gauge No. 12.

Gauge No. 18.

Gauge No. 24.

2½-inch—

Gauge No. 12.

Gauge No. 16.

Gauge No. 20.

2¼-inch—

Gauge No. 12.

Gauge No. 16.

Gauge No. 20.

2-inch—

Gauge No. 10.

Gauge No. 14.

Gauge No. 20.

1¾-inch—

Gauge No. 10.

Gauge No. 12.

Gauge No. 14.

1½-inch—

Gauge No. 10.

Gauge No. 12.

Gauge No. 14.

1¼-inch—

Gauge No. 10.

Gauge No. 12.

Gauge No. 14.

1-inch—

Gauge No. 8.

Gauge No. 10.

Gauge No. 12.

741

Screws, brass and iron—

Flat head, and round head (*continued*)— $\frac{7}{8}$ -inch—

Gauge No. 8.

Gauge No. 10.

Gauge No. 12.

 $\frac{3}{4}$ -inch—

Gauge No. 8.

Gauge No. 10.

Gauge No. 12.

 $\frac{5}{8}$ -inch—

Gauge No. 6.

Gauge No. 8.

Gauge No. 10.

 $\frac{1}{2}$ -inch—

Gauge No. 6.

Gauge No. 8.

 $\frac{3}{8}$ -inch—

Gauge No. 6.

Gauge No. 8.

Screws, brass, flat head—

 $\frac{3}{8}$ inch—

Gauge No. 3.

 $\frac{1}{4}$ -inch—

Gauge No. 3.

Screws, iron, flat head—

 $1\frac{1}{2}$ -inch—

Gauge No. 20.

 $\frac{3}{8}$ -inch—

Gauge No. 3.

 $\frac{1}{4}$ -inch—

Gauge No. 3.

(WOOLWICH SECTION, No. 13.)

12195.—Carriages, field, B.L.—

15-pr. (Marks I.* to V.) L

12-pr. 6-cwt. (Marks
I.* to II.) L

Clearance on metal cap to clear handspike.

With reference to § 11861:—In certain cases the metal cap

4th May 1904.

54

Artillery

1855

fitted to the spring case will not quite admit of the traversing handspike passing to and from the "housing" and "traversing" positions. When this is found to be the case, the metal cap must be cut to give the necessary clearance, care being taken in doing so not to cut the leather washer.

This service will be carried out locally as may be found necessary.

12196.—Carriages, field, B.L.—

| | |
|--------------------------|---|
| 15-pr. (Mark IV.) .. | L |
| 12-pr. 6 cwt. (Mark II.) | L |

Strengthened pattern rocking lever.

8th Nov. 1901.

73

3

3056

The brake gear of carriages of the above-mentioned descriptions (§§ 10479, 10480) will, in future manufacture, be fitted with a strengthened pattern rocking lever.

24th Feb. 1902.

3369

Existing carriages will be fitted with the strengthened pattern lever on the existing pattern becoming unserviceable. This service will be carried out locally, as may be necessary, for which purpose the undermentioned store will be supplied to officers concerned on demand.

Stores per carriage.

| | | Carriage, field, B.L. | |
|-------------------------------|--|-----------------------|---------------------------|
| | | 15-pr. Mark IV. | 12-pr. 6 cwt. Mark II. |
| Lever, rocking, brake gear— | | | |
| Carriage, B.L.— | | | |
| Mark IV., 15-pr. | } Steel, with cross-head and manganese bronze actuating nut. | 1 | .. |
| Mark II., 12-pr. 6 cwt. .. | | .. | 1 |

743

12197.—Carriages, field, B.L.—

15-pr., Mark IV.

.. L

Steel; with sight box, 4 pockets (T-tubes, breech brush, fuze key, and wire cutter), and traversing handspike No. 2, Mark III.

12-pr., Mark II.

.. L

Steel; with sight box, 4 pockets (T-tubes, breech brush, fuze key, and wire cutter), case oil can, and traversing handspike No. 2, Mark III.

Limbers, field, B.L.—

15-pr., Mark IV.

.. L

Steel; carriage and wagon; with grease box, 4 fuze boxes, 11 cartridge boxes, 2 T-tube boxes, 11 ammunition carriers, tray small stores, oil can, and leather case; draught pole No. 17, pole bar, and 2 swingle-trees No. 10a.

12-pr., Mark II.

.. L

Steel; carriage and wagon; with grease box, 3 fuze boxes, 9 cartridge boxes, 2 T-tube boxes, 9 ammunition carriers, 2 trays small stores, oil can, and leather case; draught pole No. 17, pole bar, and 2 swingle-trees No. 10a.

Box, telescopic sight.

(Mark I.)

.. ..

L

Steel; B.L. 12 and 15-pr. carriages or limbers.

Fittings to carry telescopic sight box on carriage.

Nomenclature.

The telescopic sight box (§ 11125) will, in future, be carried on the carriage instead of on the limber, as hitherto, and fittings will be provided in future manufacture of carriages of the above-

2nd Feb. 1904.

54

Artillery

703

mentioned description, on the right side of the trail for this purpose.

Existing carriages (§§ 10479, 10480) will be altered locally, in accordance with the instructional prints detailed below, which, together with the undermentioned stores, will be supplied to officers concerned on demand.

Consequent on the foregoing, the nomenclature of the telescopic sight box, and the details appended to the nomenclature of the carriages and limbers, have been amended as shown above.

The fittings for carrying the telescopic sight box on the limbers will be removed, and the securing straps will be returned to store.

Stores per carriage.

| | 15-pr., Mark IV. | 12-pr. Mark II. |
|---|---------------------|--------------------|
| Block, supporting, telescopic sight box (with felt) | 1 | .. |
| Bolts, with nuts, countersunk head, square— $\frac{3}{8}$ inch by $2\frac{9}{16}$ inches | 1 | .. |
| $\frac{3}{8}$ inch by $2\frac{4}{16}$ inches | 2 | .. |
| $\frac{3}{8}$ inch by $1\frac{8}{16}$ inches | 1 | .. |
| Carrier, telescopic sight box, with bolts | .. | 1 |
| Staples, lashing, riveting, $\frac{5}{16}$ inch | 2 | .. |
| Strap, securing— 1 inch by 54 inches | 1 | 1 |
| 1 inch by 42 inches | .. | 1 |
| 1 inch by 36 inches | 1 | .. |
| Instructional prints, R.C.D. .. Nos. | 1088 | 1138 |

12198.—Carriages, field, B.L.—

12-pr. 6 cwt. L

15-pr. L

Modifications to rear spring case.

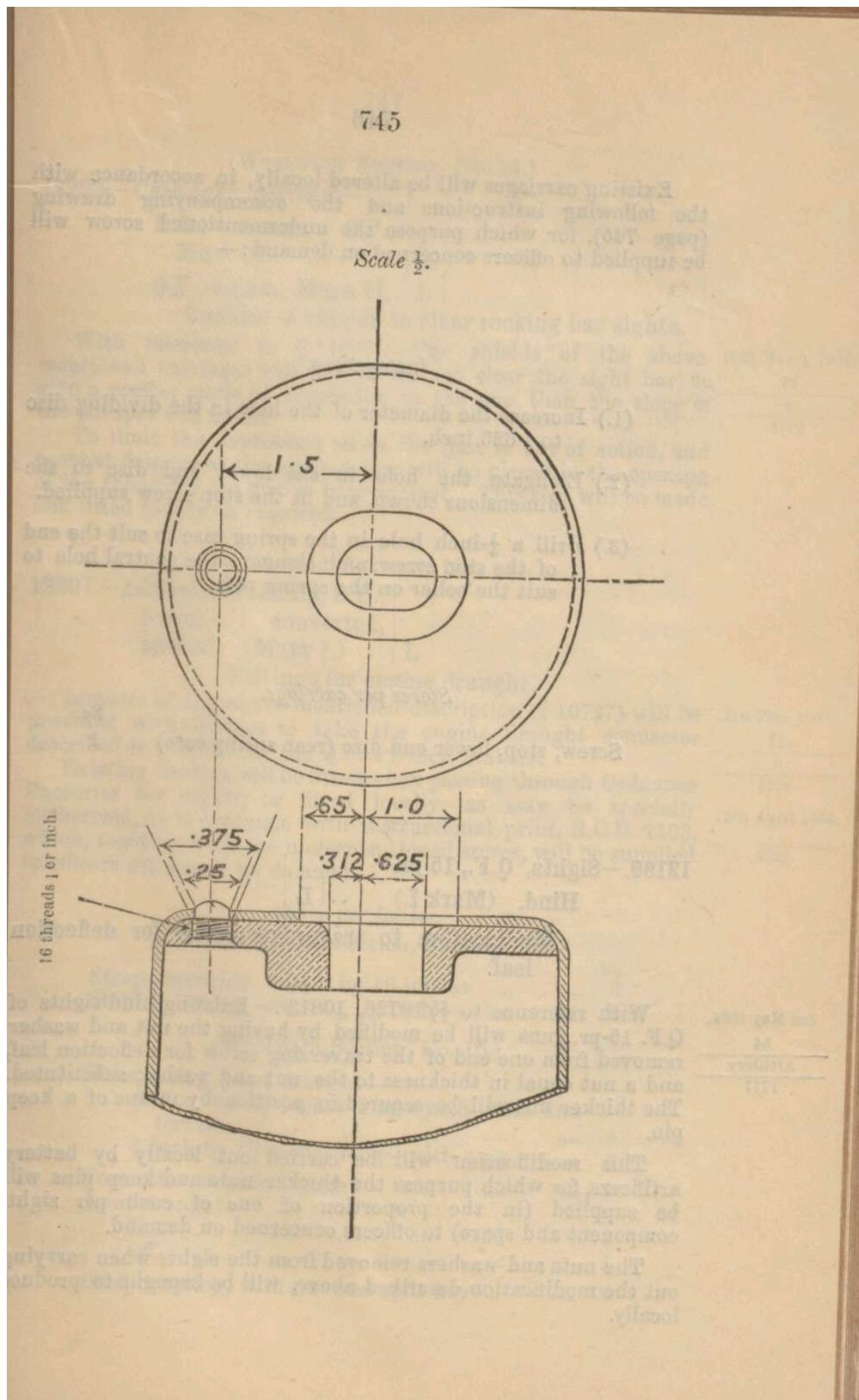
29th April 1904.

54

Artillery

1787

The rear spring case of carriages of the above-mentioned descriptions will, in future manufacture, be modified, so that the alignment of the wire ropes on the spade and the spring rods may be unaffected by the various depths of the spade in the ground when firing.



746

Existing carriages will be altered locally, in accordance with the following instructions and the accompanying drawing (page 745), for which purpose the undermentioned screw will be supplied to officers concerned on demand :—

Instructions.

- (1.) Increase the diameter of the hole in the dividing disc to 1.625 inch.
- (2.) Elongate the hole in the lower end disc to the dimensions shown, and fit the stop screw supplied.
- (3.) Drill a $\frac{1}{4}$ -inch hole in the spring case to suit the end of the stop screw, and elongate the central hole to suit the collar on the spring rod.

Stores per carriage.

| | |
|---|-----|
| | No. |
| Screw, stop, lower end disc (rear spring case) | 1 |

12199.—Sights, Q.F., 15-pr.—

Hind. (Mark I.) .. L

Modification to traversing screw for deflection leaf.

3rd May 1904.

54

Artillery

1777

With reference to §§ 10726, 10813 :—Existing hind sights of Q.F. 15-pr. guns will be modified by having the nut and washer removed from one end of the traversing screw for deflection leaf, and a nut equal in thickness to the nut and washer, substituted. The thicker nut will be secured in position by means of a keep pin.

This modification will be carried out locally by battery artificers, for which purpose the thicker nuts and keep pins will be supplied (in the proportion of one of each per sight, component and spare) to officers concerned on demand.

The nuts and washers removed from the sights when carrying out the modification described above, will be brought to produce locally.

747

(WOOLWICH SECTION, No. 14.)

12200.—Carriages, garrison—

| | |
|------------------------|---|
| B.L., 6-inch, C.P., | |
| Mark II. | L |
| Q.F., 6-inch, Mark II. | L |

Cutting of shields to clear rocking bar sights.

With reference to § 11677:—The shields of the above-mentioned carriages will not be cut (to clear the sight bar) to give a greater angle of depression to the gun than the slope of the parapet will admit.

To limit the depression when the gun is out of action, and prevent damage to the sight, a stop will be placed in the opening of the shield for the gun to bear against. This stop will be made and fitted locally as required.

| |
|------------------|
| 18th March 1904. |
| 73 |
| 4 |
| 4712 |

(WOOLWICH SECTION, No. 15)

12201.—Limber, travelling, B.L..

| | |
|-----------------------|---|
| 5-inch, converted, | |
| special. (Mark I.) .. | L |

Fittings for engine draught.

Limbers of the above-mentioned description (§ 10727) will be provided with fittings to take the engine draught connector described in § 10938 for the Q.F. 4.7-inch limbers.

Existing limbers will be fitted when passing through Ordnance Factories for repair, or fitted locally, as may be specially authorized, in accordance with instructional print, R.C.D. 1103, which, together with the undermentioned stores, will be supplied to officers concerned on demand.

| |
|------------------|
| 26th Feb. 1903. |
| 71 |
| 1 |
| 2729 |
| 12th April 1904. |
| 3227 |

Stores per limber.

(Woolwich Section, No. 13.)

| | No. |
|--|-----|
| Straps, securing, 1 inch by 18 inches | 3 |
| Staples, lashing, riveting, $\frac{5}{16}$ inch | 6 |

(Woolwich Section, No. 15.)

Bolts, fixing, joint draught—

| | |
|--|---|
| $\frac{1}{2}$ inch by $4\frac{3}{4}$ inches long—with nuts and ferrules | 4 |
| $\frac{1}{2}$ inch by $1\frac{3}{4}$ inches long—with nuts | 4 |
| Connector, engine draught | 1 |
| Joint draught— | |
| Near | 1 |
| Off | 1 |
| Pins, coupling, with nut and split key | 2 |

12202.—Ordnance, Q.F., 1-pr.,
Mark I. L

Changes in nomenclature of certain parts.

6th May 1904.

73

4

4151

With reference to § 10949:—In order to assimilate the nomenclature of the parts of the Q.F. 1-pr. gun with those of Maxim machine guns, the following nomenclature has been adopted for the Q.F. 1-pr. gun. The nomenclature as set forth in the paragraph quoted is accordingly cancelled:—

| Designation. | Service. | Detail. |
|---------------------------------|----------|---|
| Ordnance, Q.F., 1-pr., Mark I.— | | |
| Barrel | L | Steel, with washer, and nut. |
| Bar, trigger | L | Steel. |
| Block, guide | L | Steel. |
| Block, feed | L | Gunmetal, with top and bottom cartridge guides; front and rear bottom pawls, axis pin, and spiral spring, top and bottom levers with fixing pin; slide, with front and rear top pawls, axis pin, and flat spring. |
| Brackets— | | |
| Elevating— | | |
| Left | L | Steel. |
| Right | L | Steel. |
| Foresight | L | Steel, with foresight, and cap. |
| Tangent sight | L | Gunmetal. |
| Box, stuffing, muzzle | L | Gunmetal. |
| Cam guide— | | |
| Left | L | Steel. |
| Right | L | Steel. |
| Cap, foresight | L | Gunmetal. |
| Case, crank spring | L | Gunmetal, with 2 set screws and hook for spring. |
| Case, buffer | L | Gunmetal. |

749

| Designation. | Service. | Detail. |
|---------------------------------|----------|---|
| Ordnance, Q.F., 1-pr., Mark I.— | | |
| Casing, barrel | L | Gunmetal, with cap; steam tube, with front and rear plugs, and slide valve; muzzle-stuffing box and gland; breech gland; ejector tube, spring, and fixing screw; washer; 1 filling and 1 emptying plug, each with chain, S-hook, and stud; cork plug with chain, S-hooks, and stud; and fixing pin. |
| Casing, lock | L | Steel, with hard steel piece and fixing screw. |
| Cover | L | Steel, with guide block, hinge joint, joint pin, with collar, and keep pin; and securing pin, with chain, S-hooks, and stud. |
| Cover, crank spring case .. | L | Gunmetal. |
| Cover, gib spring | L | Steel. |
| Crank | L | Steel, with crank pin, fixing pin, and hook for spring. |
| Crank handle | L | Steel, with knob, and fixing pin. |
| Crosshead | L | Steel. |
| Extractor | L | Steel, with flat spring, gib, gib spring, pawl with axis pin, spiral spring, and cover. |
| Gland, breech | L | Gunmetal. |
| Gland, buffer | L | Gunmetal. |
| Gland, packing, muzzle .. | L | Gunmetal. |
| Gib | L | Steel. |
| Guard, trigger | L | Steel. |
| Hard steel piece, lock .. | L | |
| Hook, crank | L | Steel. |
| Hook, crank spring case .. | L | Steel. |

750

| Designation. | Service. | Detail. |
|---------------------------------|----------|--|
| Ordnance, Q.F., 1-pr., Mark I.— | | |
| Lever, check | L | Steel. |
| Lever, extractor— | | |
| Left | L | Steel. |
| Right | L | Steel. |
| Lever, feed block— | | |
| Top | L | Steel. |
| Bottom | L | Steel. |
| Lever, firing | L | Gunmetal. |
| Lever, side | L | Steel. |
| Nut, barrel | L | Steel, with gunmetal washer. |
| Nut, roller | L | Steel, with fixing pin. |
| Packing, asbestos— | | |
| Breech | L | |
| Muzzle | L | |
| Pawls— | | |
| Feed block, bottom— | | |
| Front | L | Steel. |
| Rear | L | Steel. |
| Feed block, slide top— | | |
| Front | L | Steel. |
| Rear | L | Steel. |
| Guide cams— | | |
| Left | L | Steel. |
| Right | L | Steel. |
| Gib | L | Steel. |
| Pins— | | |
| Axis— | | |
| Bottom pawl, feed block .. | L | Steel, spring. |
| Connecting link | L | Steel. |
| Top pawl, feed block slide .. | L | Steel. |
| Extractor, and side levers .. | L | Steel, with spring fixing pin. |
| Sear | L | Steel. |
| Trigger, and tumbler.. | L | Steel, spring, also "pin, fixing trigger guard." |
| Firing lever | L | Steel, spring. |
| Crank | L | Steel, with fixing pin. |
| Firing | L | Steel, with removable striker. |

751

| Designation. | Service. | Detail. |
|---|----------|---|
| Ordnance, Q.F., 1-pr., Mark I.— | | |
| Pins (continued)— | | |
| Fixing— | | |
| Barrel casing | L | Steel, taper. |
| Crank handle | L | Steel, taper. |
| Rear crosspiece | L | Steel, taper, with split pin. |
| Roller nut | L | Steel, taper. |
| Joint, cover | L | Steel, with collar and keep pin. |
| Joint, elevating | L | Steel, with split pin. |
| Securing, cover | L | Steel, with chain, S-hooks, and stud. |
| Split, indicator lever | L | Steel. |
| Spring, fixing, top and bottom levers, feed block | L | Steel. |
| Pistol grip | L | Gunmetal, with firing lever, axis pin, and joint pin connecting link. |
| Piston, buffer | L | Steel. |
| Piston, firing lever spring | L | Steel. |
| Plates— | | |
| Inside— | | |
| Left | L | Steel. |
| Right | L | Steel, with spring. |
| Outside— | | |
| Left | L | Steel, with trunnion; slide; barrel stop; cam guide, pawl with pivot screw, stop stud, and spring; elevating bracket, stud for shoulder piece; and stop stud for rear cross-piece. |
| Right | L | Steel, with trunnion; slide with roller, nut, and fixing pin; barrel stop; cam guide, pawl with pivot screw, stop stud, and spring; elevating bracket; 2 studs for trigger bar; hook for trigger bar spring; stud for check lever; 2 studs for ammunition box brackets; stop stud for rear crosspiece; and indicator plate. |

752

| Designation. | Service. | Detail. |
|-------------------------------------|----------|---|
| Ordnance, Q.F., 1-pr., Mark I.— | | |
| Plugs— | | |
| Buffer case | L | Steel. |
| Screwed | L | Gunmetal, with chain, S-hook, and stud. |
| Cork | L | With chain, S-hooks, and stud. |
| Rear crosspiece | L | Gunmetal, with buffer case, plug, gland, ring, and screw fixing pistol grip. |
| Regulator | L | Consisting of indicator lever with safety catch, pawl, axis pin, and connecting link. |
| Ring, buffer | L | Gunmetal. |
| Rod, connecting | L | Steel, with nut. |
| Roller | L | Steel. |
| Screws— | | |
| Keeper, pistol grip | L | Steel. |
| Fixing hard steel piece.. .. . | L | Steel. |
| Fixing, ejector tube spring | L | Steel. |
| Set, crank spring case | L | Steel. |
| Pivot, cam guide pawl | L | Steel. |
| Sear.. .. . | L | Steel. |
| Slide— | | |
| Left | L | Steel. |
| Right | L | Steel, with roller, nut, and fixing pin. |
| Slide, feed block | L | Steel, with front and rear top pawls, axis pin, and flat spring. |
| Sight, tangent | L | Steel, with removable range strip, socket with fixing pin, chain, and stud. |
| Springs— | | |
| Barrel | L | Steel, spiral. |
| Crank | L | Steel, helical. |
| Ejector tube | L | Steel, flat. |
| Extractor | L | Steel, flat, with 3 rivets. |
| Feed block | L | Steel, spiral. |
| Feed block slide.. .. . | L | Steel, flat. |
| Firing lever | L | Steel, spiral. |

753

| Designation. | Service. | Detail. |
|------------------------------------|----------|---|
| Ordnance. Q.F., 1-pr., Mark I.— | | |
| Spirals (<i>continued</i>)— | | |
| Gib | L | Steel, flat. |
| Gib, pawl | L | Steel, spiral. |
| Inside plate | L | Steel, flat, with 3 rivets. |
| Lock | L | Steel, flat. |
| Pawl, guide cam | L | Steel, flat. |
| Sear | L | Steel, flat. |
| Trigger bar | L | Steel, spiral. |
| Striker, firing pin— | | |
| <i>Mark I.</i> | L | Steel. |
| <i>Mark II.</i> | L | Steel. |
| Stud, ammunition box bracket .. | L | Steel. |
| | | |
| Tube, ejector | L | Steel. |
| Tube, steam | L | Brass, with front and rear plugs, and slide valve. |
| Tumbler | L | Steel. |
| Trigger | L | Steel. |
| Trunnion | L | Steel. |
| | | |
| Washer, buffer piston | L | Dermatine. |
| Washer, friction, barrel spring .. | L | Gunmetal. |

(WOOLWICH SECTION, No. 16.)

12203.—Gauges, mainspring,

Q.F., Hotchkiss—

Steel.

6-pr. guns. (Mark I.) C

3-pr. guns. (Mark I.) C

Boxes, spare parts and
implements, Q.F.,
Hotchkiss:—

6-pr.—

| | | | |
|------|---|------------|---|
| Land | { | Empty. | L |
| | | (Mark IV.) | |
| | { | Filled. | L |
| | | (Mark IV.) | |

Naval. (Mark IV.) N

3-pr.—

| | | | |
|------|---|------------|---|
| Land | { | Empty. | L |
| | | (Mark IV.) | |
| | { | Filled. | L |
| | | (Mark IV.) | |

Naval. (Mark IV.) N

1. To be fitted with mainspring gauge in
future manufacture.2. Existing boxes of all Marks to be fitted
with mainspring gauges locally.

22nd Aug. 1903.

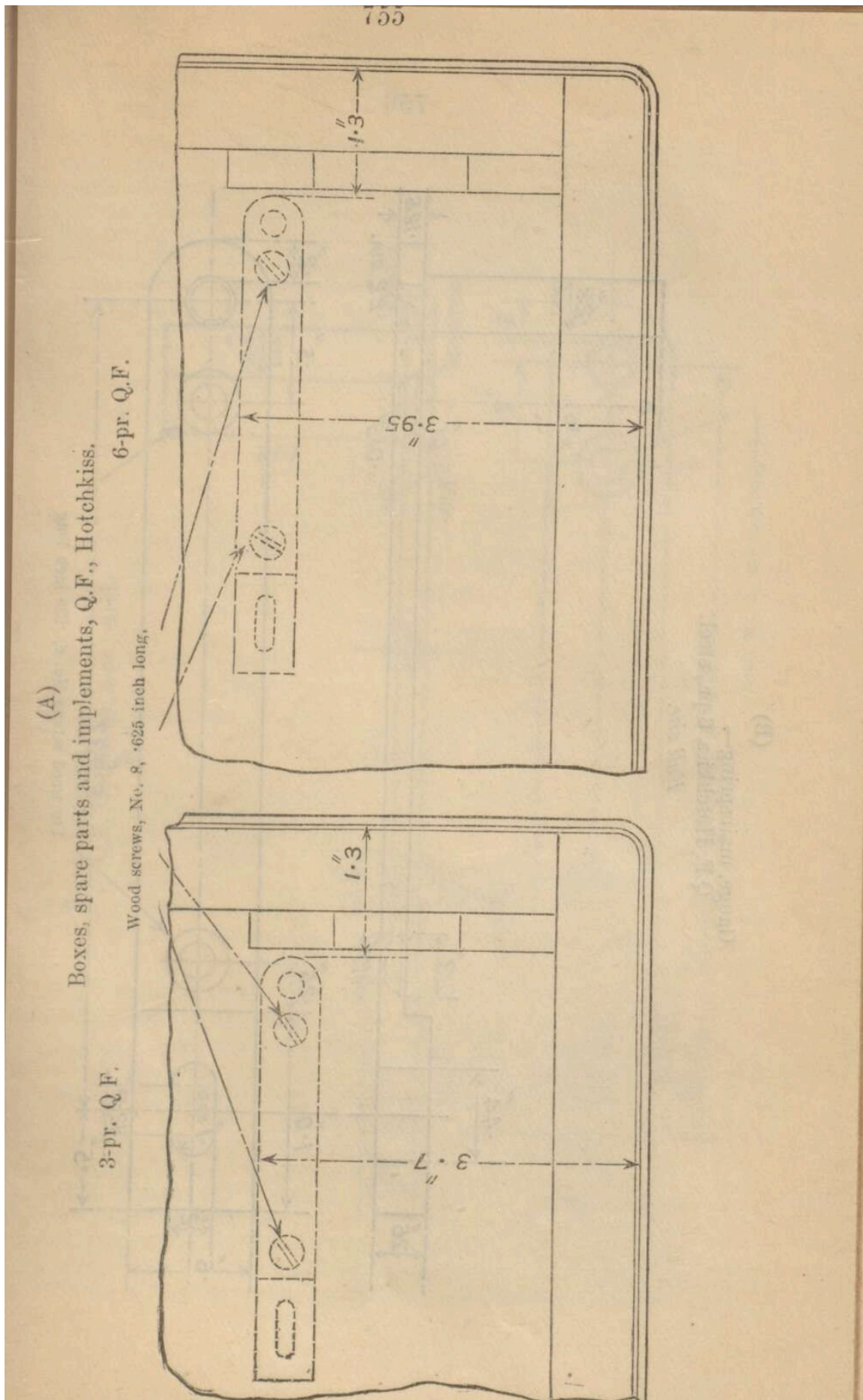
3rd Nov. 1903.

57

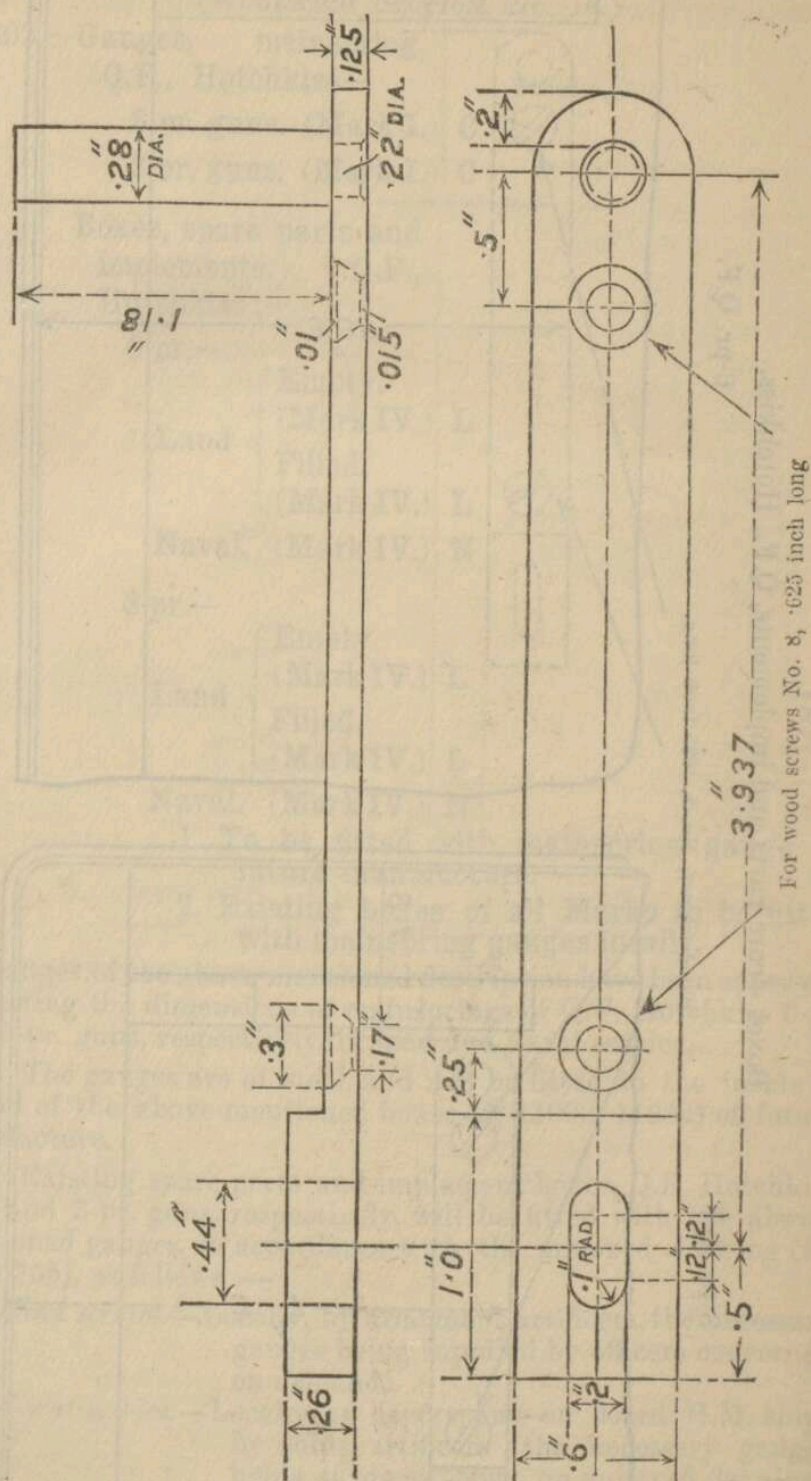
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9180

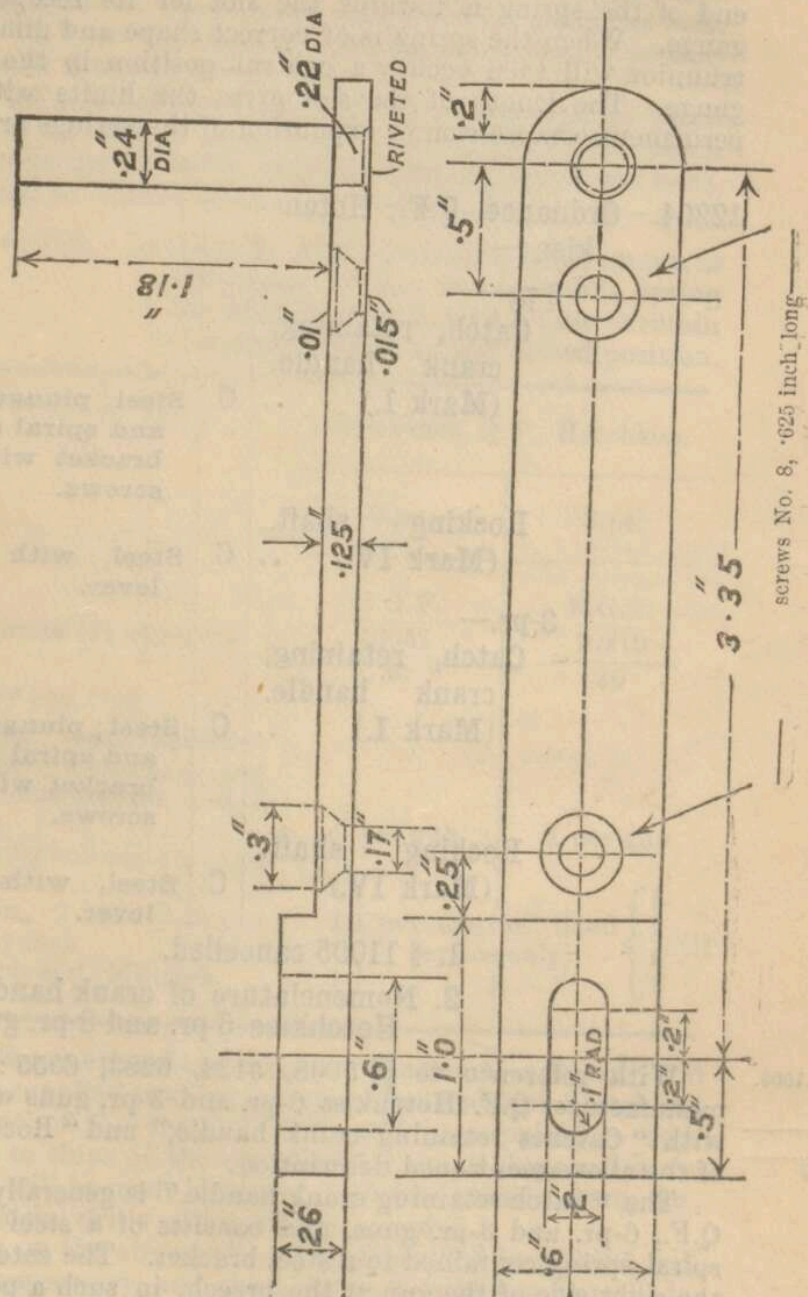
Gauges of the above-mentioned description have been approved
for testing the dimensions of mainsprings of Q.F. Hotchkiss 6-pr.
and 3-pr. guns, respectively, in land and naval service.1. The gauges are of steel, and will be fitted to the inside of
the lid of the above-mentioned boxes (§§ 11003, 11682) of future
manufacture.2. Existing spare parts and implement boxes, Q.F. Hotchkiss
6-pr. and 3 pr. guns, respectively, will be fitted with the above-
mentioned gauges, in accordance with the annexed drawing (A)
(page 755), as follows:—*Land service.*—Locally, by armament artificers, the necessary
gauges being supplied by officers concerned
on demand.*Naval service.*—Locally, at depôts, and on board H.M. ships
by ships artificers (the necessary gauges
being made as shown on annexed drawings
(B) and (C) (pages 756, 757), in accordance
with arrangements made by the Superin-
tendent of Ordnance Stores.



(B)
Gauge, mainspring--
Q.F. Hotchkiss, 6-pr., steel.
Full size.



(5)



Method of using the gauge.

Place the curved end of the mainspring against the pillar of the gauge in such a position that the trunnion on the other free end of the spring is towards the slot for its reception in the gauge. When the spring is of correct shape and dimensions the trunnion will then occupy a central position in the slot of the gauge. The length of the slot gives the limits within which permanent compression or expansion of the springs are allowable.

12204.— Ordnance, Q.F., Hotchkiss:—

6-pr—

Catch, retaining,
crank handle.
(Mark I.) ..

C

Steel; plunger with nut,
and spiral spring, and
bracket with 2 fixing
screws.

Rocking shaft.
(Mark IV.) ..

C

Steel, with re-cocking
lever.

3-pr.—

Catch, retaining,
crank handle.
(Mark I.) ..

C

Steel; plunger with nut,
and spiral spring, and
bracket with 2 fixing
screws.

Rocking shaft.
(Mark IV.) ..

C

Steel, with re-cocking
lever.

1. § 11005 cancelled.

2. Nomenclature of crank handles for Q.F.
Hotchkiss 6 pr. and 3-pr. guns altered.

9th Dec. 1903.

75

12

3473

With reference to §§ 5008, 5134, 6283, 6555:—In future manufacture, Q.F. Hotchkiss 6-pr. and 3-pr. guns will be fitted with "Catches retaining crank handle," and "Rocking shafts," of the above-mentioned description.

The "Catch retaining crank handle" is generally similar for Q.F., 6-pr. and 3-pr. guns, and consists of a steel plunger and spiral spring contained in a steel bracket. The catch is fitted to the right side of the gun at the breech, in such a position as to engage the lug on the crank handle, which actuates the rocking shaft when the crank handle is in the closed position. The catch is automatically released in opening the breech.

The Mark IV. rocking shafts for 6-pr. and 3-pr. guns are of the same design as that described for Q.F. 6-pr. land service guns (§ 11004), the use of which for 6-pr. guns has been extended to guns on non-recoil mountings, and also to naval service. The distinguishing letter of the rocking shaft for 6-pr. guns has been altered from "L" to "C," and the details appended to nomenclature amended as shown above.

Existing Q.F., Hotchkiss 6-pr. and 3-pr. guns will be fitted with the above-mentioned catches as detailed below, for which purpose the undermentioned instructional prints, stores, and tools, will be supplied to officers concerned on demand—

Land service.—Locally, by Army Ordnance Department, as the recess for the crank handle spring has become worn so that it fails to retain the crank handle in the closed position.

| Ordnance, Q.F., Hotchkiss. | | |
|---|----------------------------------|------------|
| | 6-pr. | 3-pr. |
| Instructional prints (as required) { | R.G.F. | R.G.F. |
| | 10951 | 10819 |
| | 36 | 26 |
| <i>Stores and tools.</i> | | |
| Catch, retaining, crank handle—steel; plunger, with nut, and spiral spring, and bracket, with 2 fixing screws | 1 per gun. | 1 per gun. |
| Jig—with 1 fixing bolt and nut, and 1 fixing screw | 1 | 1 |
| Drill, flat bottom, 7-inch diameter | 1 | 1 |
| Drill, tapping, $\frac{3}{8}$ -inch | 1 | 1 |
| Drill, pin, 3-inch and 375-inch | 1 | 1 |
| | per district (land service only) | |

For Naval Service the above-mentioned instructional prints and catches will be supplied to ships carrying 6-pr. and 3-pr. Hotchkiss guns, and a set of the jig and drills will be supplied to flag-ships for issue to ships of the squadron for use of ships artificers. The alteration will be made locally at depôts to guns in store, &c., but jigs and special drills will not be supplied.

Consequent on the above, the repair described in § 11005 will be rendered unnecessary, and the paragraph is hereby cancelled.

The flat spring with fixing screw will be removed from the crank handle on the above-mentioned catch being fitted, and the details appended to the nomenclature of the crank handles for

Q.F., Hotchkiss 6-pr. and 3-pr. guns respectively, will be amended accordingly.

The Mark IV. rocking shafts for Q.F., 6-pr. and 3-pr. land service guns will be substituted for the previous Marks, as the latter become unserviceable.

For Naval Service the catches are not to be fitted to guns with Mark III. rocking shafts until these are replaced by Mark II. or Mark IV. rocking shafts.

(WOOLWICH SECTION, No. 17.)

12205.— Ordnance:—

B.L.—

Lock, E. & P., "E." C

B.L. and B.L.C.—

Lock, E. & P., "F." C

Sharp edges on front face of locks to be rounded.

27th Nov. 1903.

73

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4921

30th Jan. 1904.

4911

With reference to §§ 9386, 9995, 10111, 10631:—In future manufacture of the above-mentioned locks, the sharp edges on the face of the lock frames will be rounded off, so as to prevent injury to the head of the vent-sealing tube in the vent.

Existing "E" and "F" locks will be modified, in accordance with the annexed drawing (page 761), as follows:—

Land service.—Locally by Army Ordnance Department.

Naval service.—Locally, at depôts, and on board H.M. ships by ships artificers, in accordance with Admiralty instructions contained in letter dated 19th January, 1904, G. 2098/1904.

12206.— Ordnance, B.L., 6-inch,
wire:—

Marks VII. and
VII.V—

Lever, breech
mechanism .. C

Mark VIII.—

Lever, breech
mechanism .. N

Modification to prevent levers from fouling the gun in worn mechanisms.

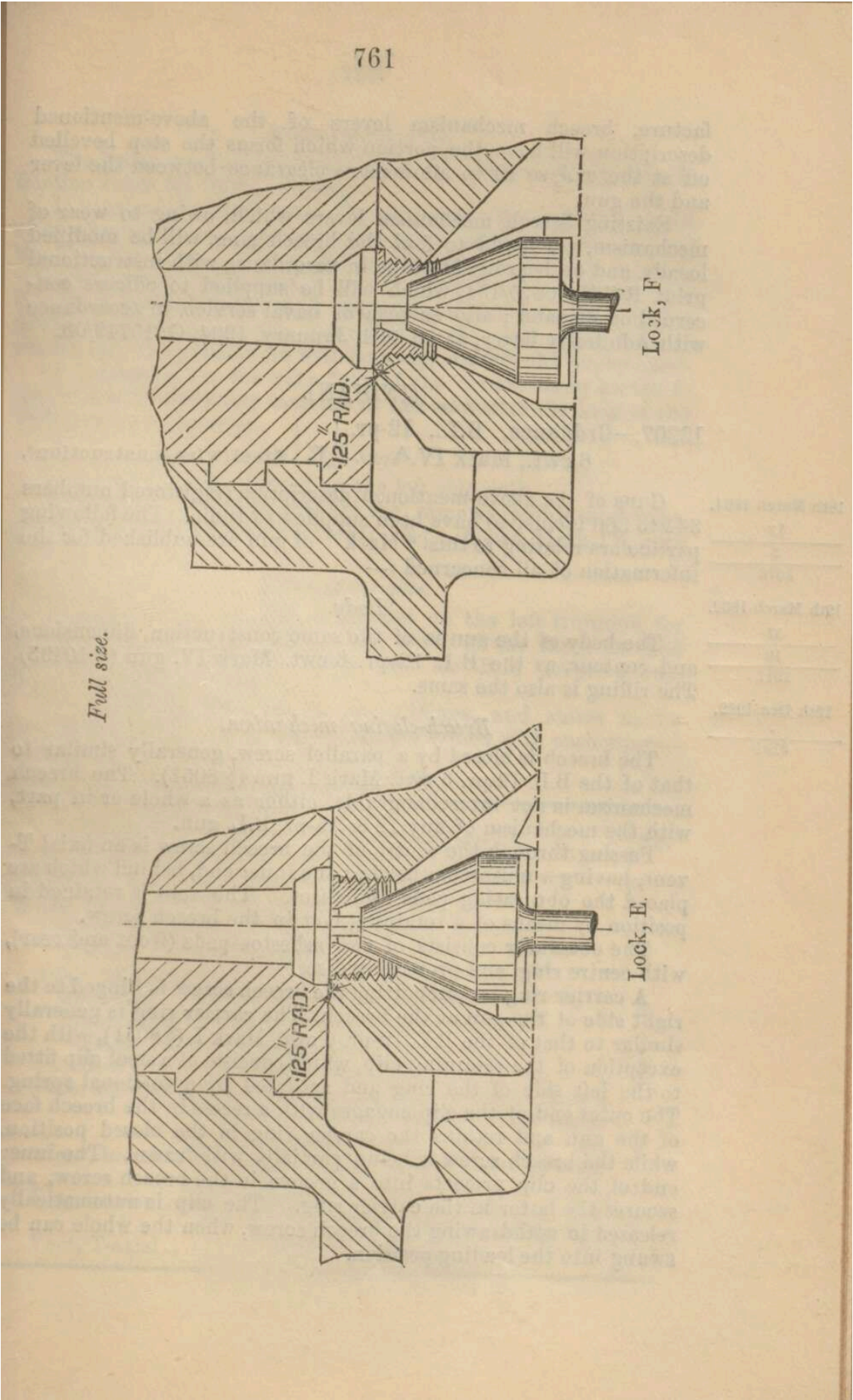
31st Dec. 1903.

22nd Feb. 1904.

N.O.

14366

With reference to §§ 9386, 10737, 10911:—In future manu-



facture, breech mechanism levers of the above-mentioned description will have the portion which forms the stop bevelled off at the end, so as to allow more clearance between the lever and the gun.

Existing breech mechanism levers which, owing to wear of mechanism, are found to foul the breech ring, will be modified locally, and on board H.M. ships, in accordance with instructional print R.G.F./10810/154, which will be supplied to officers concerned on demand; also as regards naval service, in accordance with Admiralty letter, dated 11th January, 1904, G. 15742/03.

(INDIAN).

12207.—Ordnance, B.L., 12-pr. 6 cwt., Mark IV.^A .. L Steel (wire construction).

18th March 1904.

73
3
6076

Guns of the above-mentioned description (registered numbers 344 to 386 inclusive) have been supplied to India. The following particulars relating to this "Mark" of gun are published for the information of all concerned:—

19th March 1902.

57
16
2911

Body.

The body of the gun is of the same construction, dimensions, and contour, as the B.L. 12-pr. 6 cwt. Mark IV. gun (§ 10493). The rifling is also the same.

15th Dec. 1902.

3131

Breech-closing mechanism.

The breech is closed by a parallel screw, generally similar to that of the B.L. 12-pr. 6 cwt. Mark I. gun (§ 8051). The breech mechanism is not interchangeable, either as a whole or in part, with the mechanism of any 12 or 15-pr. B.L. gun.

Passing through the centre of the breech screw is an axial T-vent, having a mushroom head at the inner end, behind which are placed the obturating pads and discs. The vent is retained in position by means of a retaining bolt in the breech screw.

The obturator consists of two asbestos pads (front and rear), with centre ring, and protecting discs.

A carrier ring for supporting the breech screw is hinged to the right side of the gun at the breech. The carrier ring is generally similar to that of the B.L. 12-pr. 6 cwt. Mark I. (§ 8051), with the exception of the retaining clip, which consists of a steel clip fitted to the left side of the ring and actuated by a torsional spring. The outer end of the clip engages with a recess in the breech face of the gun and retains the carrier ring in the closed position, while the breech screw is being partially withdrawn. The inner end of the clip projects into a groove in the breech screw, and secures the latter in the carrier ring. The clip is automatically released in withdrawing the breech screw, when the whole can be swung into the loading position.

Firing mechanism.

The firing mechanism is designed for friction firing with T-friction tubes (§§ 10025, 11694).

It consists of a steel axial T vent passing through the centre of the breech screw, prepared at its outer end for the reception of the T-friction tube. The vent is retained in position by means of a retaining bolt in the breech screw. The T-tube is turned into the firing position in the vent by hand, and retained by a spring which is fitted round the outer end of the vent. The tube is turned into the position for withdrawing, and withdrawn, by hand.

A projection on the rear face of the breech screw serves to ensure the T-tube being inserted in the vent with the loop of the friction wire uppermost.

Sighting.

The guns are side sighted on the left side only.

The tangent and foresights are the same as (and interchangeable with) those described for B.L. 12-pr. 6 cwt. Mark IV. guns (§ 10493).

Telescopic sights.

The guns are fitted with a bracket on the left trunnion for carrying the telescopic sight. The sight is the same as (and interchangeable with) that described for B.L. 12-pr. 6 cwt. Mark IV. guns (§ 10493).

The following is a list of the fittings, and stores to be demanded separately (exclusive of spare), issued with each gun:—

Component fittings.

| Designation. | Details. | No. |
|---|---|-----|
| Ordnance, B.L., 12-pr. 6 cwt., Mark IV. A.— | | |
| Bolt, retaining vent, T-axial | Steel | 1 |
| Discs, pad, obturating— | | |
| Adjusting | Steel | 2 |
| Protecting— | | |
| Front | Tin | 1 |
| Rear | Tin | 1 |
| Pads, obturating .. | Asbestos, canvas covered; 2 to a set, front and rear with centre ring | 1 |
| Screw, breech.. .. | Steel, with cam lever, and securing key | 1 |
| Ring, carrier | Steel, with hinge bolt; and clip retaining, with torsional spring.. | 1 |
| Vent, T-axial | Steel, with spring | 1 |

764

To be demanded separately.

| Designation. | Details. | No. |
|---|---|-----|
| Bit, vent, 14-inch | Steel, 15 inch diameter; all B.L. guns and howitzers having T-axial vents | 1 |
| Rimer, vent, T | Bronze, for T-vents | 1 |
| Sights, B.L.— Fore— 15-pr. Marks II. and IV., and 12-pr. Mark IV. guns. (Mark III.) | Steel, with retaining catch, spiral spring and split ring | 1 |
| Tangent— 12-pr. Marks II. and IV. guns. (Mark III.) | Steel, with socket and graduated drum | 1 |
| Telescopic— 12-pr. Mark IV. gun, left. (Mark IV.) .. | Steel and bronze, with leather strap; in leather case | 1 |
| Wrench, breech mechanism, B.L., 12-pr. 6 cwt. Mark IVA. gun.. .. | Steel | 1 |

(WOOLWICH SECTIONS, NOS. 20 AND 22.)

| | |
|--|---|
| 12208.—Apparatus, proving fuze— | |
| Adapter, gad .. | C |
| Fuze, time, Armstrong, E, No. 22 | C |
| Implements, fuze, shell, and cartridge— | |
| Key, fuze, Arm- strong, E | C |
| Wad, fuze hole, R.B.L. sockets | C |

Obsolete.

1st an. 1904.

57

Gen. No.

4112

The above-mentioned stores (§§ 9336, 11172, 1790, 1683, and 1708) will be regarded as obsolete, and should be dealt with accordingly.

Special instructions as to the disposal of existing fuzes have been issued to all concerned.

765

(WOOLWICH SECTION, No. 20)

12209.—Flask, pistol powder.
 (Mark I.) C | Copper, tinned; 1 lb.
 Extended use.

The use of the above-mentioned flask (§ 8111) having been extended to R.E. units, for carrying loose powder, the distinguishing letter has been altered from "N" to "C," as shown above.

15th April 1904.
 40116
 7861

(WOOLWICH SECTION, No. 22.)

12210.—Machine, rocket, life
 saving, buoyant .. L
 Rocket, life saving,
 buoyant L
 Rocket stick, 6 feet .. L
 1. Obsolete.

Fuze, rocket, 3-lb., life
 saving. (Mark I.) .. L
 2. Nomenclature.

1. With reference to §§ 3634, 4809, and 10616:—The above-mentioned Machine, Rocket, and Stick, are hereby declared obsolete.

14th Jan 1904.
 75
 10
 1314

2. Consequent upon the use of the "Fuze, rocket, buoyant, No. 21" (§ 3634), with 3-lb. life-saving rockets, *vide* § 11349, the nomenclature of the fuze has now been altered as shown above.

12211.—Tubes:—

| | | | |
|------------------|----|----|---|
| Friction, T | .. | .. | L |
| Vent sealing— | | | |
| Electric— | | | |
| M | .. | .. | L |
| P | .. | .. | C |
| V | .. | .. | C |
| T (double wired) | .. | | L |
| Wireless, P | .. | | C |
| Percussion | .. | .. | C |

Ends burred to secure cork plugs.

In future manufacture, the ends of the above-mentioned
 (310) B

1st Dec. 1903.
 75
 7
 8087

766

tubes (§§ 10025, 8913, 8655, 8839, 11695, 10406), will be burred to secure the cork plug.

This modification does not involve any change of numerals.

(WOOLWICH SECTION, No. 24.)

12212.—Cartridges, B.L., 9·2-inch—

60-lb., cordite, M.D.,
size 37. (Mark I.)

C

Silk cloth, $\frac{1}{2}$ charge;
Marks IX. to X.v guns.

30-lb., cordite, M.D.,
size 37. (Mark I.)

C

Silk cloth, $\frac{1}{4}$ charge;
Marks IX. to X.v guns.

9th Sept. 1903.

74

6

2113

Patterns (designs R.L. Nos. 12569B (1) and 12986 (1) respectively) of the above-mentioned cartridges have been sealed to govern manufacture for land and naval services.

The empty cartridges are made of No. 2 class silk cloth, and provided with hoops of ·65-inch silk braid—the $\frac{1}{2}$ charge having eight, and the $\frac{1}{4}$ charge four, hoops. The $\frac{1}{2}$ charge is provided with two special braid becketts and one silk cord becket, and the $\frac{1}{4}$ charge with one special braid becket and one of silk cord, for lifting purposes.

The charges are built up of M.D. cordite, size 37, and are cylindrical in shape, with an annular recess at one end to receive a primer of 8 oz. of R.F.G.² or new blank F.G. powder, contained between a disc of shalloon and one of No. 1 class silk cloth, stitched across the centre so as to form four compartments.

A millboard disc, covered with silk cloth, is placed over the primed end of the cartridges, and is to be torn off before firing.

Dimensions of filled cartridges.

| | B.L. 9·2-inch 60-lb. ($\frac{1}{2}$ charge). | B.L. 9·2-inch 30-lb. ($\frac{1}{4}$ charge). |
|-----------------------------|--|--|
| | inches. | inches. |
| Length (not to exceed) .. | 32·5 | 16·25 |
| Diameter (not to exceed) .. | 8·0 | 8·0 |

767

Packing.

| Cartridge. | Package. | Number of cartridges. | Packing pieces. |
|----------------|-----------------------------------|--------------------------|--|
| Land service. | | | |
| B.L. 9·2-inch— | | | |
| 60-lb. | Cylinder, car- tridge, No. 36 | 1 | 1 disc 8·5 inches diameter 1 inch thick (§ 12213). |
| 30-lb. | | 2 | |
| Naval service. | | | |
| 60 lb. | Case, powder, { rectangular, N | 4 | Nil. |
| 30 lb. | | 8 | Nil. |

12213.—Cylinders, cartridge:—

Discs, 8·5 inches diameter—

1 inch thick.

(Mark I.) .. C

1. New pattern.

 $\frac{3}{8}$ inch thick.

(Mark I.) .. C

2. Nomenclature.

1. A pattern of the above-mentioned 8·5-inch disc, 1 inch thick, has been sealed to govern manufacture.

The disc is for use when packing B.L. 9·2-inch 60-lb. and 30-lb. cartridges in No. 36 cartridge cylinders (§ 12212).

2. Consequent on the introduction of the 1 inch-thick disc, the nomenclature of the 8·5-inch disc, mentioned in § 9265, has been amended by the addition of " $\frac{3}{8}$ inch thick," as shown above.

(WOOLWICH SECTION, No. 28.)

12214.—Heliograph, 5-inch.

(Mark III.)* .. L In leather case.

A pattern of the above-mentioned store has been sealed to govern the conversion of existing Mark III. 5-inch heliographs (§§ 10309, 11197, 11642), to assimilate them to Mark IV. pattern when returned to store for repair.

(310)

B 2

4th Dec. 1903.

70

Gen. No.

1080

20th Nov. 1903.

57

Gen. No.

4797

It is identical with the Mark IV. 5-inch heliograph (§ 11883), with the exception that the key is the same size as the Mark III.

The component parts are the same as the Mark IV. The component parts are interchangeable between the Mark III.* and Mark IV. with the exception of the following :—

| | | | | | |
|--------|------|------|------|---------------------|--|
| Body— | | | | | |
| Arm, U | .... | .... | .... | With pivot for main | |
| Key. | | | | socket. | |

| | | | | | |
|--------------------|---------|---|----------------------|--|--|
| 12215.—Spectacles, | tinted. | | | | |
| (Mark I.) | .. .. | L | With side guards. In | | |
| | | | case. | | |

8th March 1904. A pattern of the above-mentioned store has been sealed to govern manufacture and issue, for the use of signallers, to such stations as may receive instructions from the War Office to specially demand them.

54
Gen. No.
9415

(WOOLWICH SECTION, No. 29.)

| | | | | | |
|-------------------|----------|---|-------------------------|--|--|
| 12216.—Key, doubl | current. | | | | |
| (Mark II.) | .. .. | L | With detachable brass | | |
| | | | cover for contacts, on | | |
| | | | ebonite base; without | | |
| | | | case. | | |
| Case.. | .. .. | L | Wood, with sliding lid. | | |

2th March 1904. Patterns of the above-mentioned key and case have been sealed to govern manufacture.

58
60

The key differs from the previous pattern (mentioned at page 1396, Priced Vocabulary of Stores, 1902, but not hitherto announced in *List of Changes*) in the following particulars :—

- (1.) It is provided with standard terminals, and even number of B.A. screw threads.
- (2.) The cover is made wholly of brass, instead of having a glass top.
- (3.) The springs fitted to ensure good contact between block and axle are bent brass springs let into underside of axle blocks, instead of steel springs fitted to sides of axle block.

The case, which will only be required when keys are issued or carried other than mounted on baseboards, will not be supplied with the key unless separately demanded.

769

12217.—Switchboard, telephone
exchange, field, 12-
line. (Mark II.) .. L

Single wire; 21½ inches
by 13½ inches by 5½
inches; with small
peg, 13 pin pegs, 6
spare bobbin dis-
chargers, 96 yards of
A 3 wire, and 4 fixing
screws.

A pattern of the above-mentioned switchboard has been sealed 21st March 1901.
to govern future manufacture.

It differs from the Mark I. pattern (§ 9310) in the following
particulars :—

- (1.) Twelve extra terminals are provided for connecting lightning dischargers.
- (2.) Eighteen "Dischargers, lightning, hobbin" (§ 12048) are issued with each switchboard (six of these are spare).
- (3.) One spare pin peg is provided.
- (4.) The switchboard is fitted with a chattering bell, commutator, and small peg.
- (5.) The indicators are constructed for use either in a horizontal or vertical position; in the former position a brass-hinged flap in front of indicator is lowered to its full extent, and acts as a counterpoise, and when used in a vertical position, the brass flap is placed against the face of indicator.
- (6.) A separate transport case is not required.
- (7.) The weight is 31 lb.

12218.—Table, plane, portable.
(Mark I.) L

Surveying; board with
tripod and cover.

Board. (Mark I.) .. L

Wood, 18 inches by
18 inches.

Cover. (Mark I.) .. L

Canvas, with sling.

Tripod. (Mark I.) .. L

Wood, with leather
strap; telescopic.

Attachment, tripod,
portable plane table.

(Mark I.) L

Leather and felt, with
five leather straps; to
secure tripod to saddle.

Patterns of the above-mentioned plane table, and tripod
attachment, have been sealed to govern manufacture.

12th June 1903.

7901

836

The plane table is intended for use by the Royal Engineers, and owing to the tripod being telescopic is specially suitable for mounted men, for which purpose the tripod is secured by means of the attachment.

The attachment is not a component of the plane table, and must be separately demanded when required.

The board, with cover and tripod, weighs $9\frac{1}{2}$ lb.

771

NAVAL.

(SECTION II.)

12219.—Ordnance, Q.F., 12-pr. |
 18 cwt., Mark I. .. N | Steel (wire construction).

Drawings (design E.O.C. 71697) of the above-mentioned gun, 21st Aug. 1903.
 and fittings, have been sealed to govern manufacture for Naval Service. 73

The following are the chief particulars relating to the gun:— 4
 4490

| | | | | |
|-------------------------------|---|---|------|--|
| Material | .... | .... | .... | Steel, wire construction. |
| Length, total | .... | .... | .... | 154·7 inches. |
| Weight, with fittings | .... | .... | .... | 18 cwt. 2 qrs. 6 lb. |
| Bore | { calibre | .... | .... | 3 inches. |
| | { length | .... | .... | 150 inches = 50 calibres. |
| Chamber | { length (to base of pro- jectile) | { "separate" ammunition | | 20·6 inches. |
| | | { "fixed" am- munition | | 20·3 inches. |
| | { diameter | { greatest (not including re- cess for rim of cartridge) | | 4 inches. |
| | | { smallest | | 3·24 inches. |
| Capacity of cartridge case | { | { "separate" ammunition | | 186 cubic inches. |
| | | { "fixed" am- munition | | 183 cubic inches. |
| Rifling.... | { system | .... | .... | Polygroove, modified plain section. |
| | { length | .... | .... | 128·162 inches. |
| | { twist | .... | .... | 1 turn in 30 calibres. |
| | { grooves | { number | .... | 20. |
| | | { width | .... | ·314 inch. |
| | | { depth.... | .... | ·04 inch. |
| Firing mechanism | .... | .... | .... | Electric and percussion. |

The gun is constructed of steel, and consists of A and B tubes,

breech piece, breech bush, a series of layers of steel wire, jacket, and breech ring. The A tube extends throughout the bore. Over a portion of the A tube is shrunk the breech piece, secured longitudinally by corresponding shoulders, and a breech bush, which is screwed into the breech piece at the rear; the bush is also prepared for the reception of the breech screw. The B tube is shrunk over the front portion of the A tube from the muzzle, and partially overlaps the breech piece. Over the breech piece are wound successive layers of steel wire, the ends of which are secured to steel rings. The jacket is fitted over the exterior of the wire and a portion of the B tube, and is secured longitudinally by corresponding shoulders on the latter, and by the breech ring which is shrunk over the rear end of the breech piece and screwed to the jacket.

The breech bush and breech ring are each prevented from turning when in position by means of a fixing screw.

Lugs are formed on the breech ring at the rear for the attachment of the breech mechanism of the gun, and on the under side for connecting the gun to the hydraulic buffer and running-out springs of the mounting.

The exterior of the jacket is furnished with longitudinal projections forming guides for the gun when in the cradle of the carriage.

The chamber is slightly coned throughout its length to facilitate extraction of the cartridge after firing.

A plane for clinometer is prepared on the upper side of the breech ring.

Axis lines are cut on the right side of the gun at the breech and on the horizontal and vertical axes at the muzzle.

Breech closing and firing mechanisms.

The breech closing and firing mechanisms are generally similar to those of the Q.F. 12-pr. 12-cwt. A gun (§ 7724).

The list of component parts, and stores to be demanded separately, is as follows:—

Component parts.

| Designation. | Details. | No. |
|-------------------------------------|---|-----|
| Ordnance, Q.F., 12-pr. 18 cwt.:— | | |
| Carrier.. .. | Bronze, with flat spring with fixing screw, bearing washer and lubricating screw; hinge bolt, washer, lubricating screw | |

773

| Designation. | Details. | No. |
|--|---|-----|
| Ordnance, Q.F., 12-pr. 18 cwt. Carrier (<i>continued</i>)— | and keep pin; sliding block, bush, and axis pin for link with fixing and lubricating screws; breech mechanism lever with nut, keep pin, and lubricating screw; link actuating breech screw, with nut, keep pin, and lubricating screw; safety stop in two parts with fixing and check screws; catch retaining breech screw with spiral spring, bracket with 4 fixing screws, and 3 locking plates each with fixing screw; and hook supporting cable with securing screw and spring washer | 1 |
| Extractor | Steel with lever, bush, and fixing screw, buffer, spiral spring, and cover, actuating plate with axis pin, washer, and keep pin; and retaining nut | 1 |
| Screw, breech.. .. | Steel, with fixing and lubricating screws, and bush firing hole .. | 1 |
| Striker, electric and percussion | Steel, consisting of needle in two parts with insulator, keep screw, short firing pin, and 2 nuts; insulating bush in two parts; sheath; mainspring; 3 washers (2 leather and 1 vulcanized fibre); nut for sheath; head; retaining nut; and trigger in two parts with spring, keep pin, and cap | 1 |
| Ordnance, Q.F., 12-pr. 12 and 18 cwt.— Bracket, supporting contact | Bronze with 2 fixing screws and securing pin in two parts with keep pin; for contacts secured by pins | 1 |

To be demanded separately.

| Designation. | Details. | No. |
|---|--|-----|
| Ordnance, Q.F., 12-pr.— Wrench, D | Steel, nuts of axis pins of breech mechanism lever and actuating link | * |
| Ordnance, Q.F.— Wrench, E | Steel, for extractors, and all small screws; 4·7-inch B, except Mark V., 4-inch Mark III., and 12-pr... .. | * |
| Ordnance, Q.F. or Q.F.C.— Drift | Bronze .. | * |
| Hammer, lead | Handled .. | * |
| Punch... .. . | Steel .. | * |
| Wrench, bush firing hole.. .. . | Steel, breech screw; 12-pr. and upwards, except 4-inch Marks I. and II., and Q.F.C. 4-inch.. | † |
| Wrench, F | Steel, for strikers, Q.F., 6-inch B, 4·7-inch B, 4-inch Mark III., 12-pr.; Q.F.C. 6-inch .. | * |
| Can, lubricating, No. 10 .. | Steel, seamless; B.L., B.L.C., Q.F., or Q.F.C. guns | * |
| Extractor, cartridge, hand, Q.F., small | Steel, Q.F., 4·7-inch, 4·7-inch A and B, 4-inch, and 12-pr. .. | ‡ |

* 1 per 4 guns or less.

† { 2 to each 2nd class cruiser, and above.
1 to each 3rd class cruiser, and below.

‡ 1 per gun and 1 spare per 6 guns or less.

775

| Designation. | Details. | No. |
|--|---|-----|
| Gauge, striker, protrusion, No. 1 | Steel, Q.F., 6-inch, 6-inch B, 4.7-inch, 4.7-inch A and B, 4-inch, 15 and 12-pr., Q.F.C. 6-inch and 4-inch | * |
| Rimer, vent axial, short .. | Bronze, for axially vented guns, excepting those with T axial vents; also for adapter car- tridge Q.F. or Q.F.C. | * |

* 1 per 4 guns or less.

776

List of Lithographs.
(Issued since notice on p. 623, Vol. XXII.)

| | No. of Plate. |
|--|---------------|
| Tube, friction, T. (Mark IV.) | { R.L. |
| | 318 |
| Cartridge, R.M.L., 11-inch, 25 lb. 4 oz., cordite, size 10. } (Mark I.) | 319 |
| Shell, B.L. or B.L.C., shrapnel, 5-inch, gun or howitzer. } (Mark V.) | 320 |
| Tube, electric, No. 10A. (Mark I.) | { 321 |
| Cartridge, B.L., 10-pr., 3 oz. 9 drs., cordite, size 3 $\frac{3}{4}$. } (Mark I.) | 322 |
| Cartridge, Q.F., or Q.F.C., drill, 6-inch, short. (Mark IV.) } Cartridge, Q.F., drill, 4·7-inch, Marks I. to IV.* guns. } (Mark V.) | 323 |
| Cartridge, Q.F., drill, 12-pr. (Mark IV.) | { R.C.D. |
| Limber, field, B.L., 12-pr. 6 cwt. (Mark II.) | 276 |
| Pump, testing, compressed air reservoirs. (Mark I.) { | 277 |
| Pump, testing, compressed air reservoirs— Box. (Mark I.) | 278 |
| Carriage, parapet, machine gun, Maxim 303-inch. } (Mark III.) | 284 |
| Carriage, garrison, sliding. B.L., 6-inch. (Mark II.) } Slide, L, B.L., 6-inch, Armstrong. (Mark II.) | 286 |

By order of the Army Council,

E. W. D. Ward

WAR OFFICE,
1st June, 1904.

777

ERRATA.

§ 11866. Page 458, Vol. XXII.—

Stores per limber—

For "Bolts, fixing, joint draught, $\frac{1}{2}$ inch by $1\frac{3}{4}$ inches long; with nuts and ferrules."

Read "Bolts, fixing, joint draught, $\frac{1}{2}$ inch by $1\frac{3}{4}$ inches long; with nuts."

§ 12127. Page 685, Vol. XXII.—

Instruments, drawing, and appurtenances, &c. Nomenclature—

21st line from top of page—

For "Compass, drawing—

"Pencil—

"Shifting leg, double jointed, 6-inch, Mark I."

Read "Compass, drawing—

"Shifting leg, double jointed, 6-inch, Mark I."

19th May 1904.

57

Gen. No.

5507

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